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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/515,363	02/29/2000	Paul B. Fisher	A34614/070050.1690	1657
7590 02/10/2005			EXAMINER	
Lisa B. Kole			QIAN, CELINE X	
BAKER & BO	TTS		· · · · · · · · · · · · · · · · · · ·	<u></u>
30 Rockefeller Plaza			ART UNIT	PAPER NUMBER
New York, NY 10112			1636	
			DATE MAIL ED: 02/10/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

*	Application No.	Applicant(s)				
	09/515,363	FISHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Celine X Qian Ph.D.	1636				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicate. If the period for reply specified above is less than thirty (30) days of 15 If NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a re- ion.  s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON <sup>2</sup> y statute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on	18 November 2004.					
2a) ☐ This action is FINAL. 2b) ☑	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice un	nder <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <u>1,2 and 4-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1 and 2</u> is/are allowed.						
6)⊠ Claim(s) <u>4-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.	•				
Application Papers						
9) The specification is objected to by the Ex	aminer.					
10)⊠ The drawing(s) filed on <u>27 August 2002</u> is	s/are: a)⊠ accepted or b)⊡ obj	jected to by the Examiner.				
Applicant may not request that any objection	to the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the	correction is required if the drawing(	s) is objected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by t	the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docu	ıments have been received.					
2. Certified copies of the priority docu	ıments have been received in Ap	pplication No				
3. Copies of the certified copies of the	·	received in this National Stage				
application from the International E						
* See the attached detailed Office action for	a list of the certified copies not i	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/9449 Paper No(s)/Mail Date</li> </ol>	· · / · · · · · · · · · · · · · · · · ·	)/Mail Date formal Patent Application (PTO-152) 				

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#### **DETAILED ACTION**

Claims 1, 2, 4-11 are pending in the application.

This Office Action is in response to the Amendment filed on 11/18/04.

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/18/04 has been entered.

## Response to Amendment

The rejection of claims 4-11 under 35 U.S.C.112 1<sup>st</sup> paragraph is maintained for reasons set forth of the record mailed on 6/16/04 and further discussed below.

## Response to Arguments

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 4-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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In response to this rejection, Applicant asserts that the claims as amended recites "an isolated nucleic acid molecule, wherein at least 90 percent of the nucleotides of said nucleic acid molecule match the nucleotides of SEQ ID NO:1 or the complementary strand thereof," and such amendment obviates the written description rejection.

This argument has been fully considered but deemed unpersuasive. The claimed nucleic acid molecule (claim 4) encompasses a large genus of nucleic acids of different size and structure that are not related to each other. The specification does not give any definition to the term "match." As such, the recitation of "90 percent of the nucleotides of said nucleic acid molecule match the nucleotides of SEQ ID NO:1" may be broadly interpreted as any nucleic acid sequence having 90% same nucleotides as SEQ ID NO:1. SEQ ID NO:1 is a DNA sequence made up with four nucleotides ATCG. Any DNA sequence that is made up by nucleotides ATCG would "match" SEQ ID NO:1 100%. The specification does not have written description support for all kinds of DNA sequences except the one encodes Mda-5 polypeptide. In addition, even if the recitation means that the nucleic acid is 90% homologous to SEQ ID NO:1, the claimed genus still encompasses a large genus of nucleic acids of different size and structure that may not be related (10%=336 base pair nucleotides can be mutated or deleted). The amended claim 4 does not have functional limitation either. As discussed in the previous office action, the specification fails to describe what are the structure requirements, i.e., functional domain, necessary for Mda-5 function. As such, the specification fails to describe the claimed genus of nucleic acid by their complete structure or other identifying characteristics. Therefore, the written description requirement is not met. This rejection is maintained.

Claims 1-2 are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celine X Qian Ph.D. whose telephone number is 571-272-0777. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel Ph.D. can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Celine X Qian Ph.D. Examiner Art Unit 1636

CELIAN QIAN PATENT EXAMINER